

Prior Art
Figure 1. SMTP Architecture

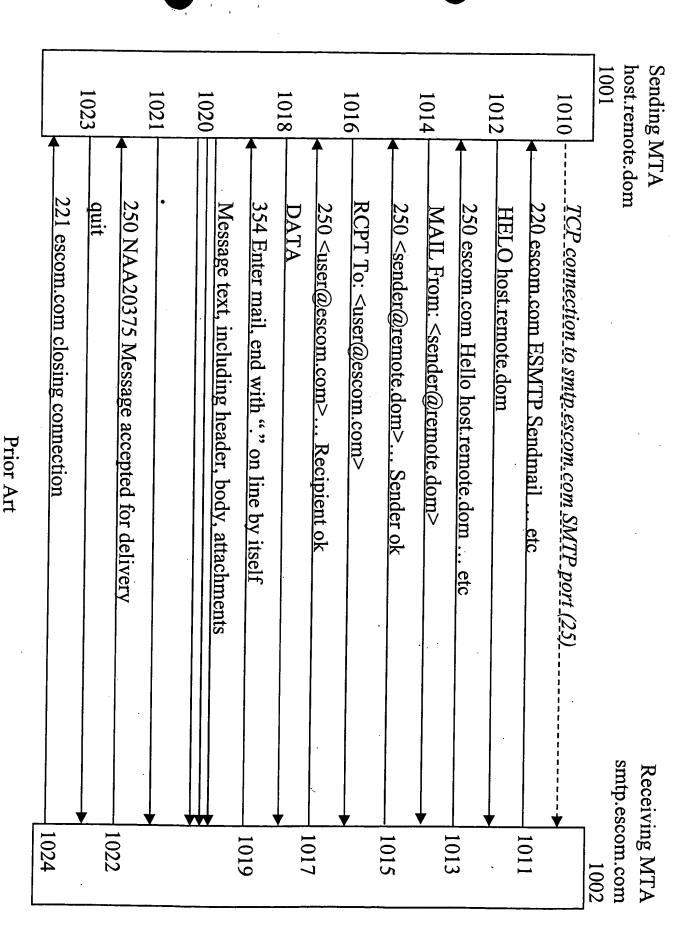


Figure 2. Example of SMTP Message Transfer

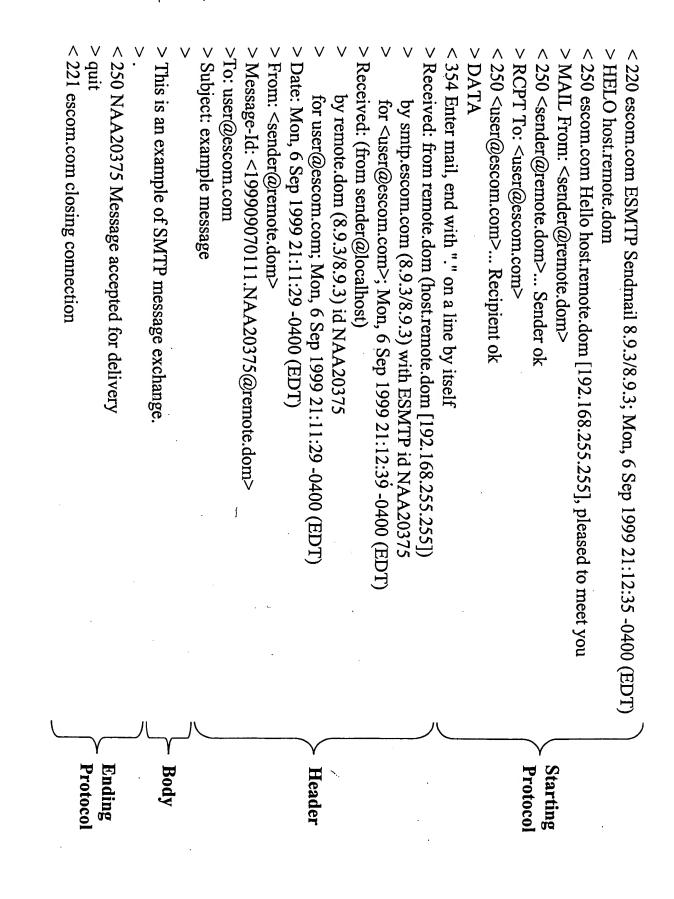


Figure 3. Detailed Example of SMTP Message Transfer

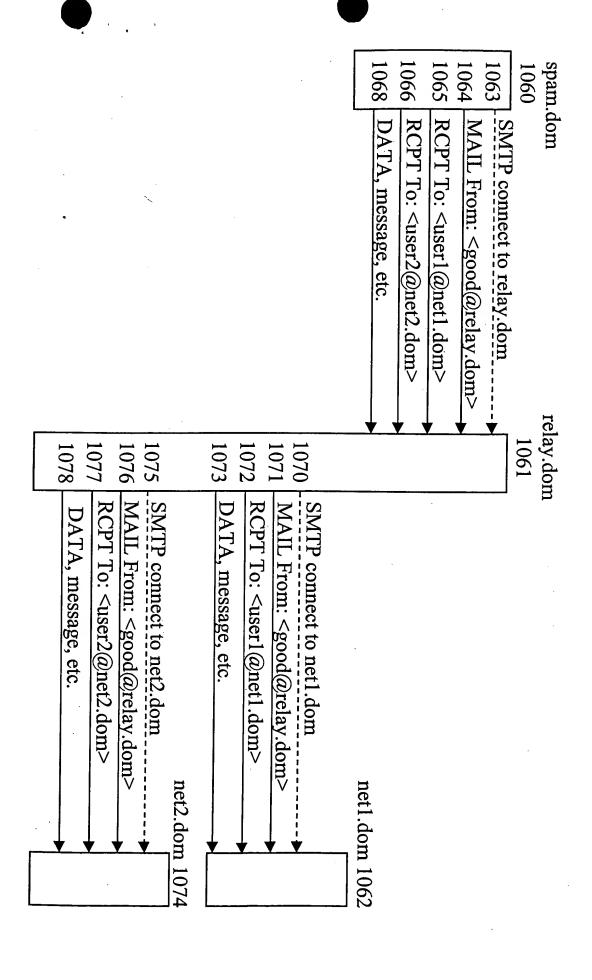
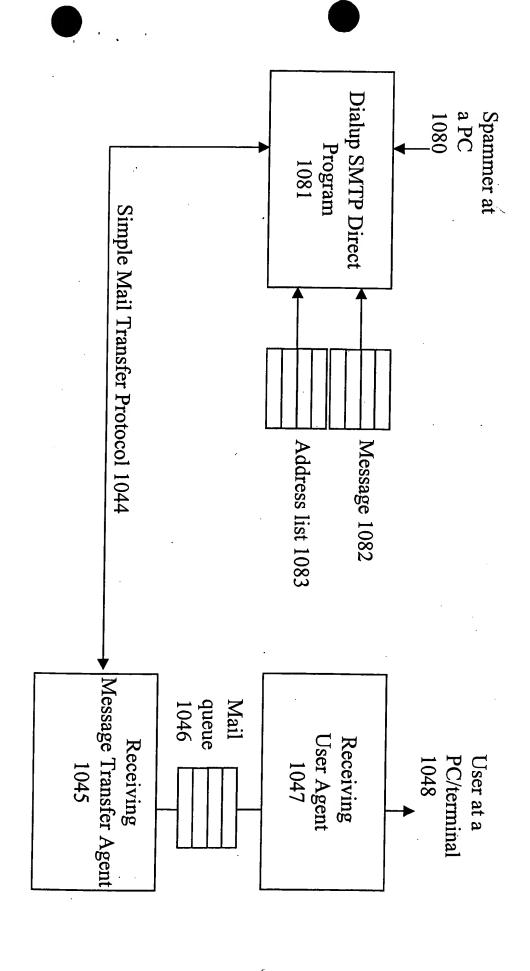


Figure 4. Example of Relay Abuse. (SMTP Responses not Shown) Prior Art

- 220 anubis.itesm.dom Sendmail SMI-8.6/SMI-SVR4 ready [...]
- > HELO local.dom
- 250 anubis.itesm.dom Hello local.dom [...]
- > MAIL From: <relay_test@local.dom>
- 250 <relay_test@local.dom>... Address ok
- > RCPT To: <nobody@local.dom>
- < 250 <nobody@local.dom>... Recipient ok

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Figure 5. SMTP Transactions for Relay Test



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Figure 6. Dialup SMTP Architecture

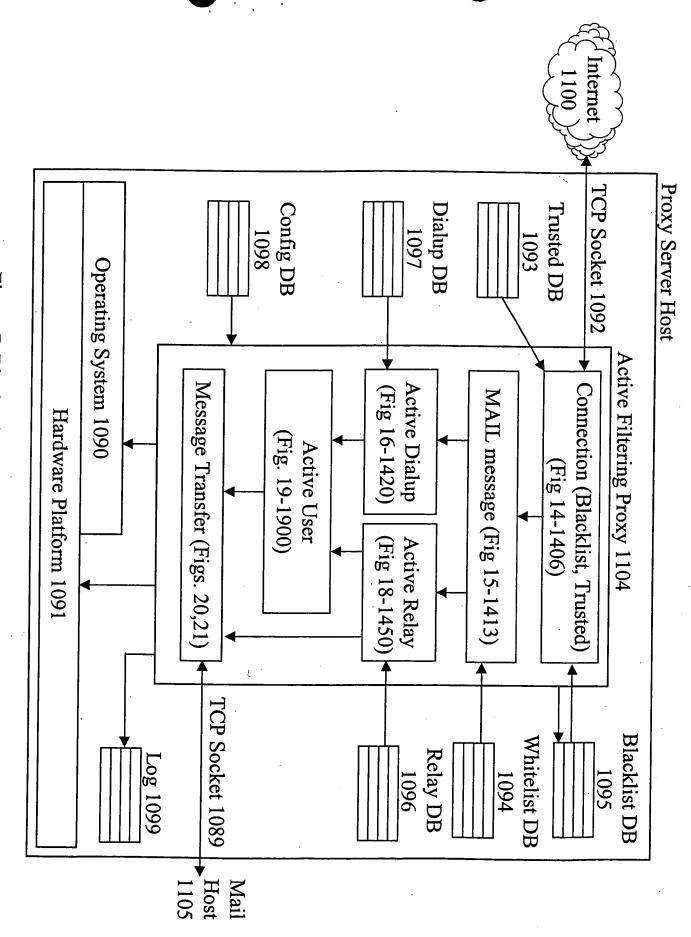


Figure 7 Block Diagram of Active Filtering System

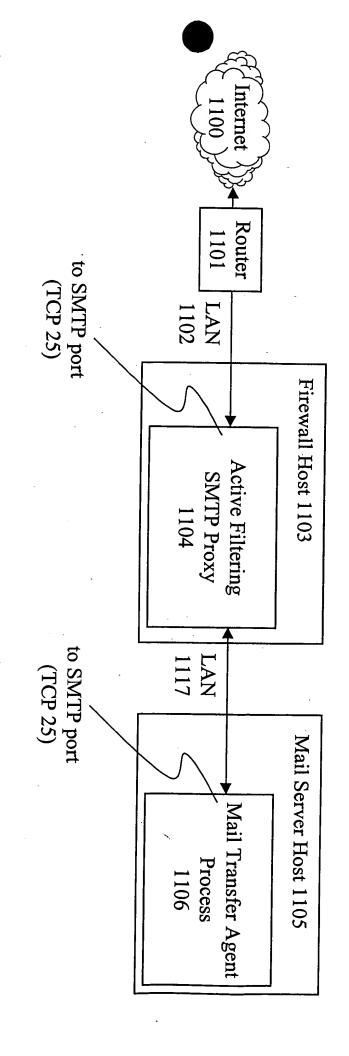


Figure 8. Active Filtering Proxy in Conventional Firewall Configuration.

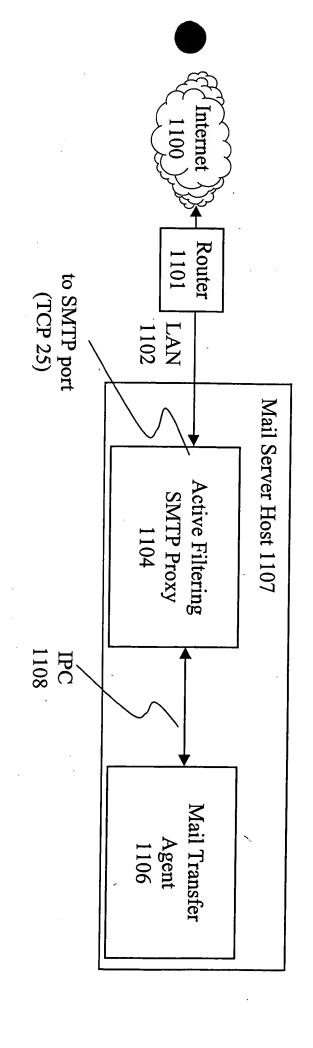


Figure 9. Single-Host Architecture

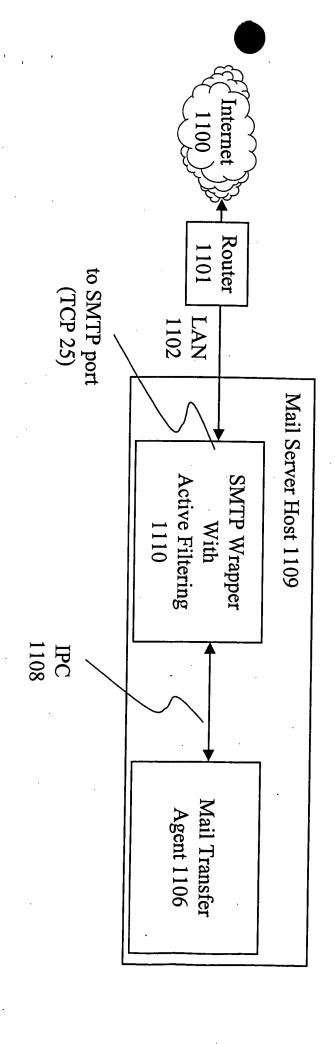


Figure 10. Active Filtering implemented as part of SMTP Wrapper

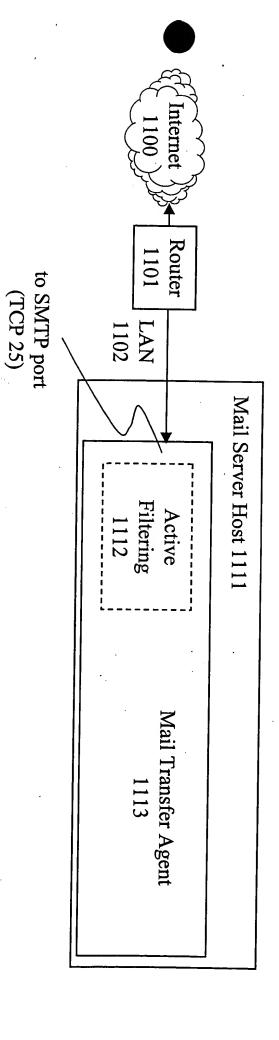


Figure 11. Active Filtering implemented as part of Mail Transfer Agent Process

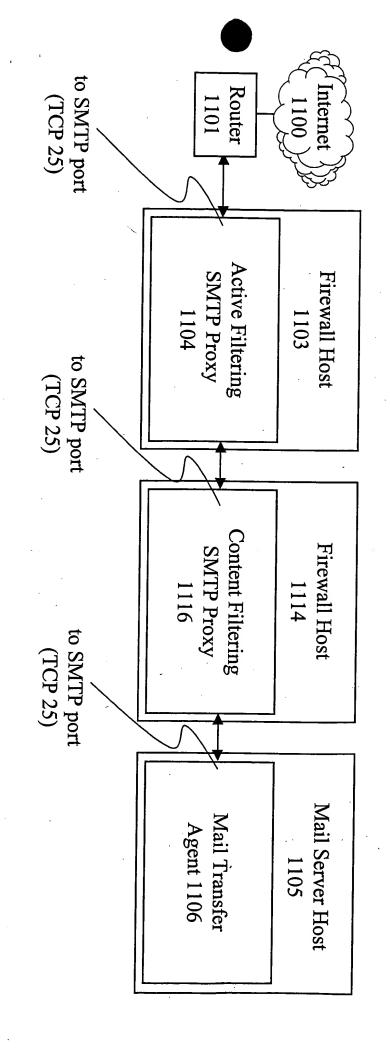


Figure 12. Active Filtering Proxy chained with Content Filtering Proxy

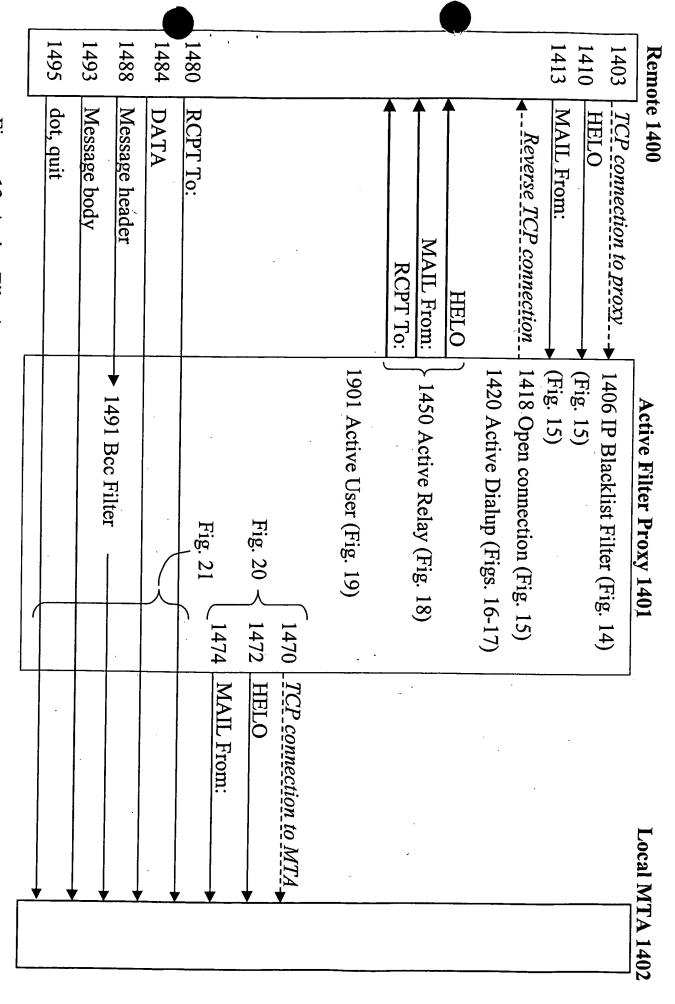


Figure 13. Active Filtering Overview (not showing status responses or error conditions)

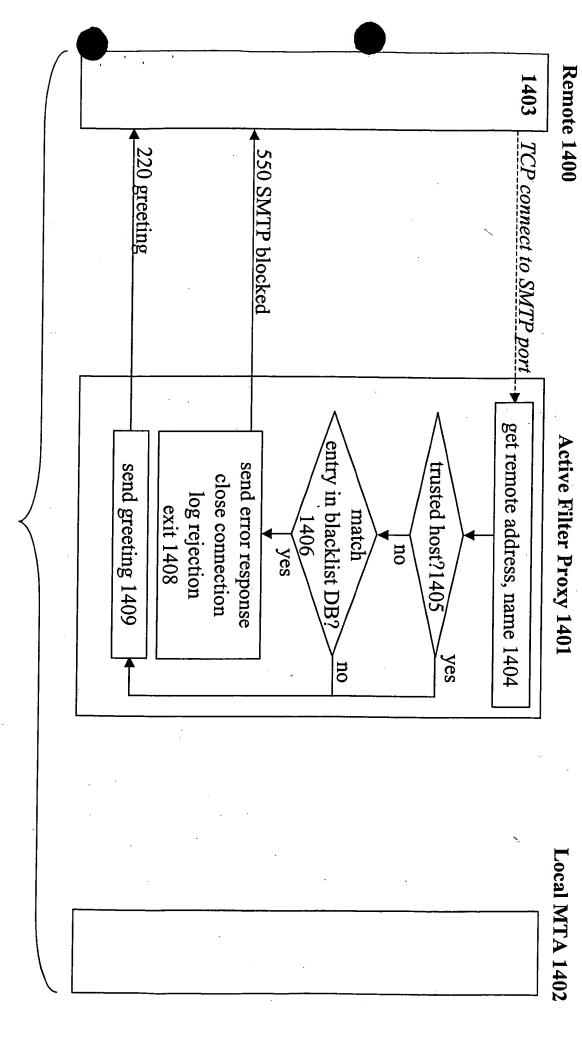


Figure 14. IP Blacklist Filtering

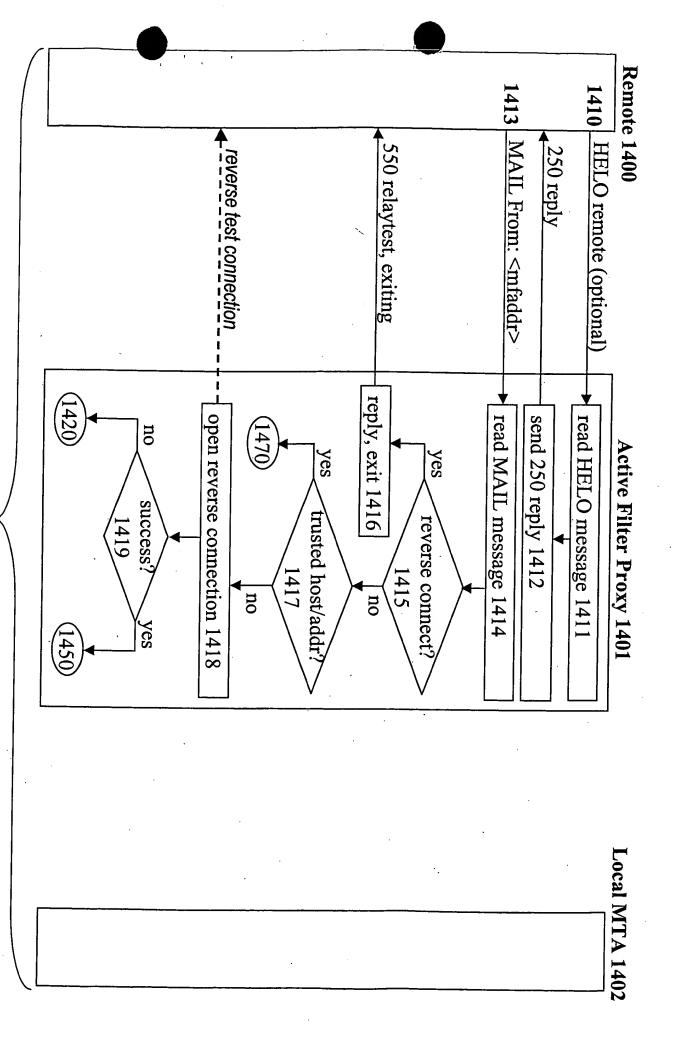


Figure 15. Remote HELO and MAIL Message Processing

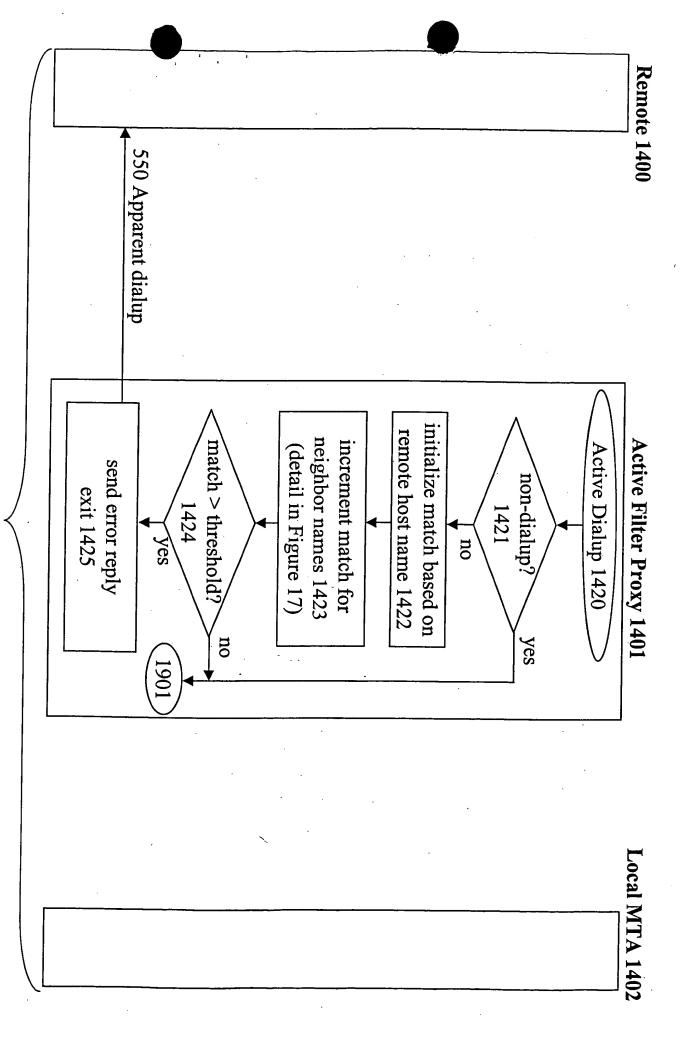


Figure 16. Active Dialup Test

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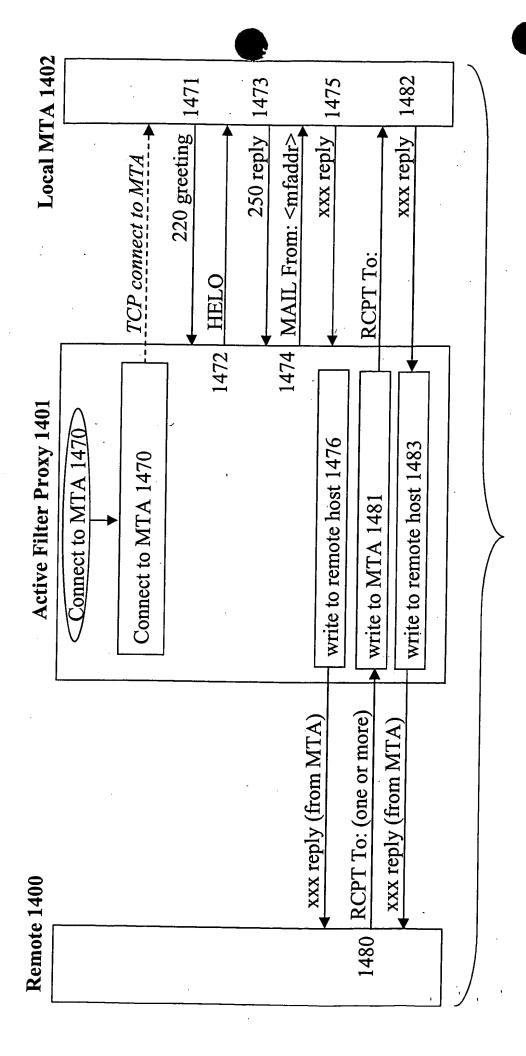


Figure 20. Connect to MTA and Early Protocol Messages

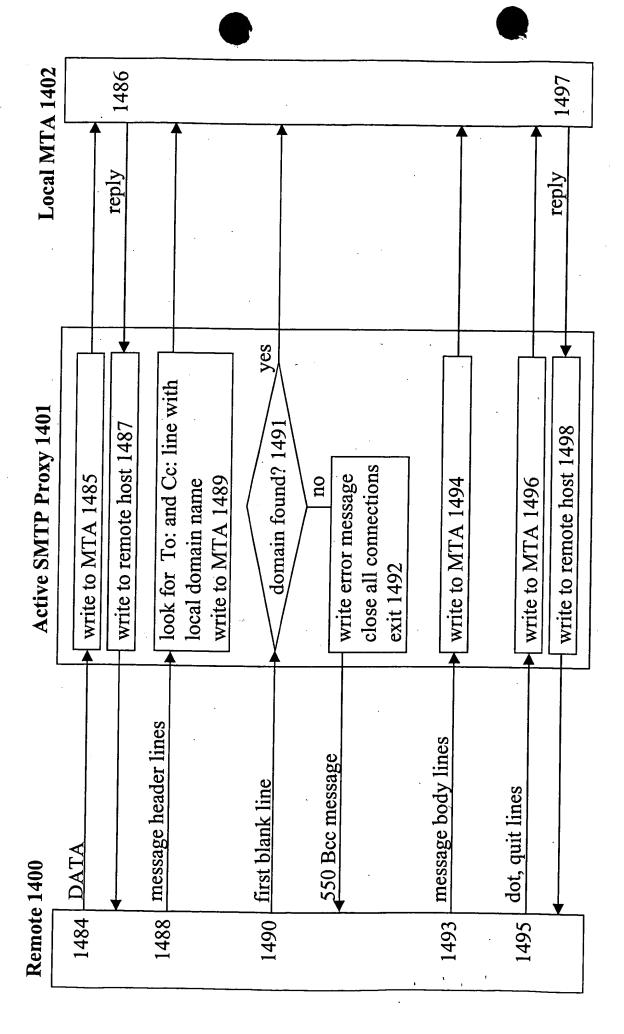


Figure 21. Data Transfer Phase

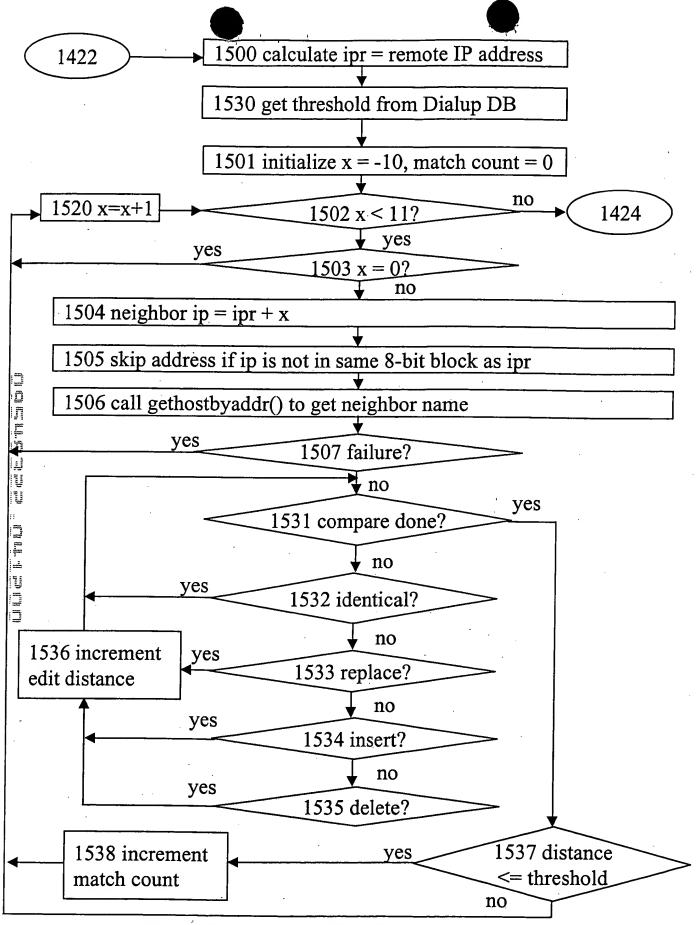


Figure 22. Details of Edit Distance Method (Alternative Figure 16 Step 1423)

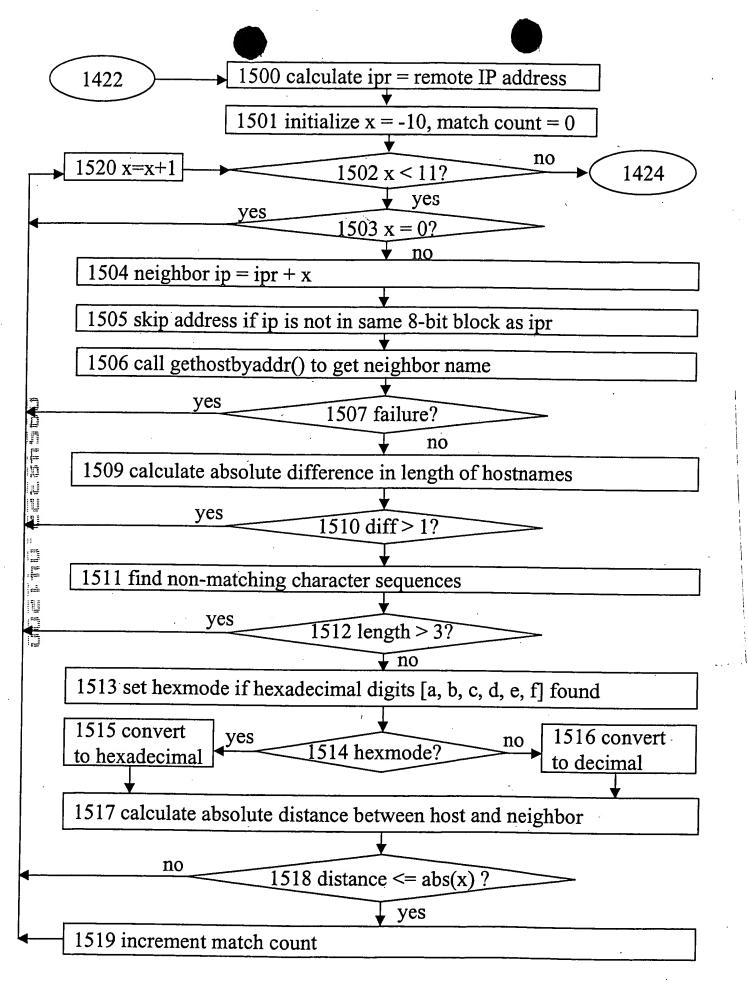


Figure 17. Details of Figure 16 Step 1423

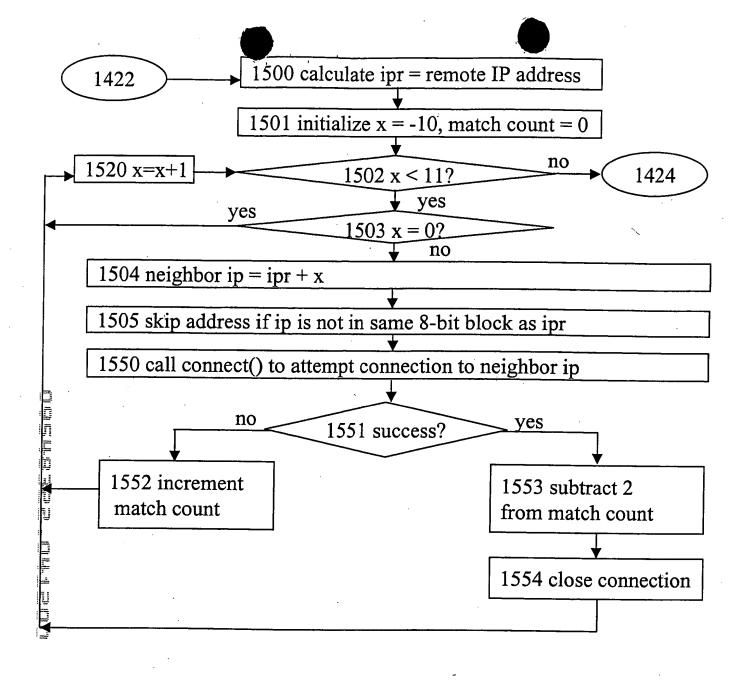


Figure 23. Details of Neighbor Connection Method (Alternative Figure 16 Step 1423)

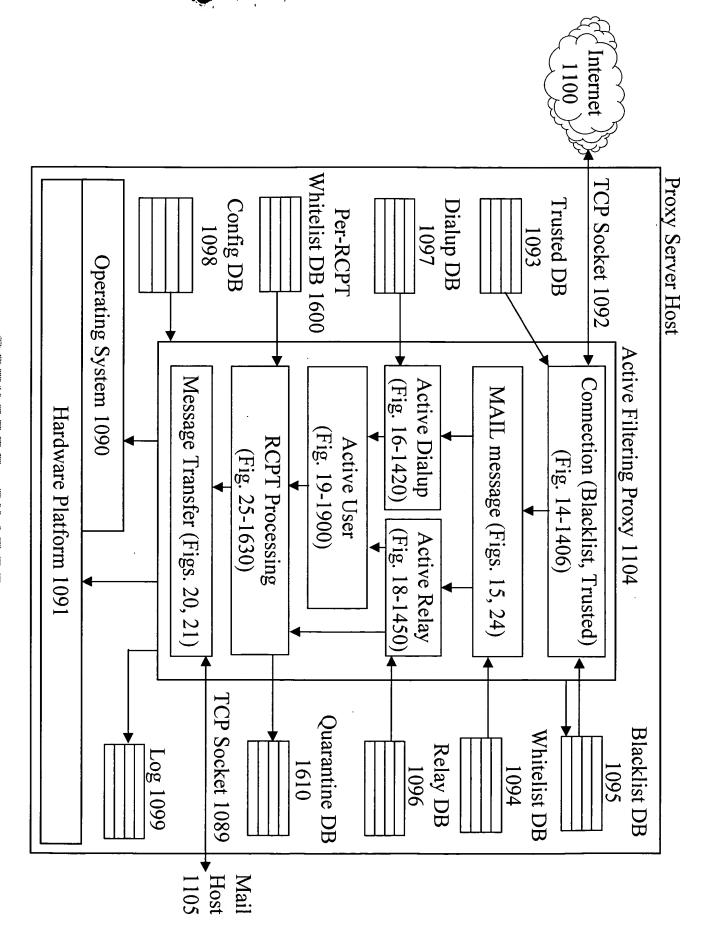


Figure 24. Active Filtering With Per-Recipient Whitelists and Quarantining.

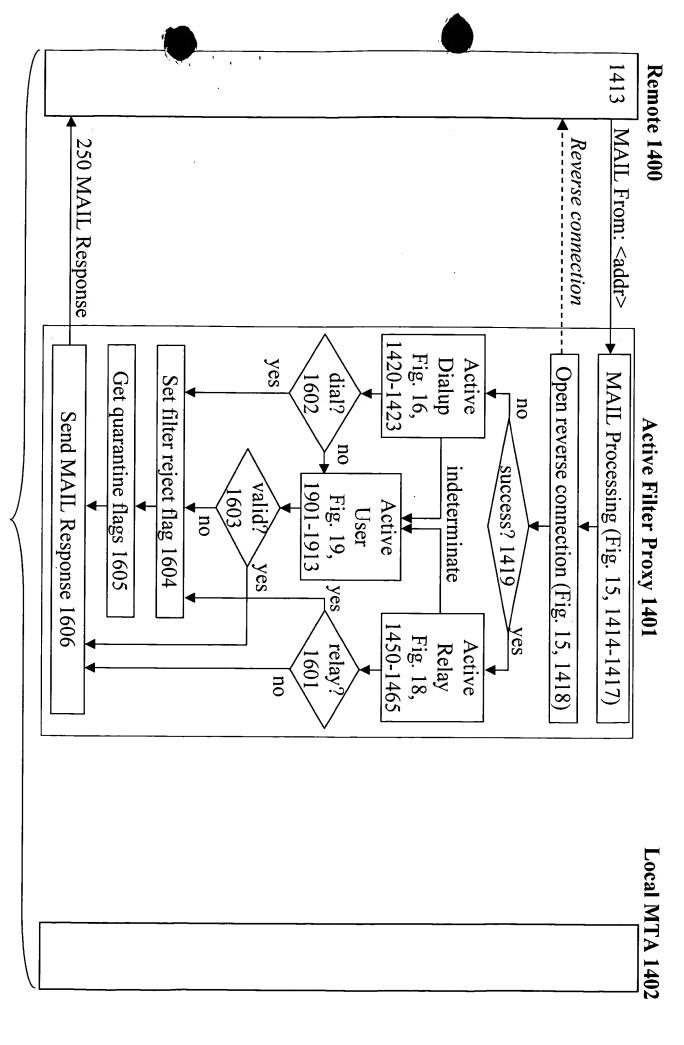


Figure 25. MAIL Processing.

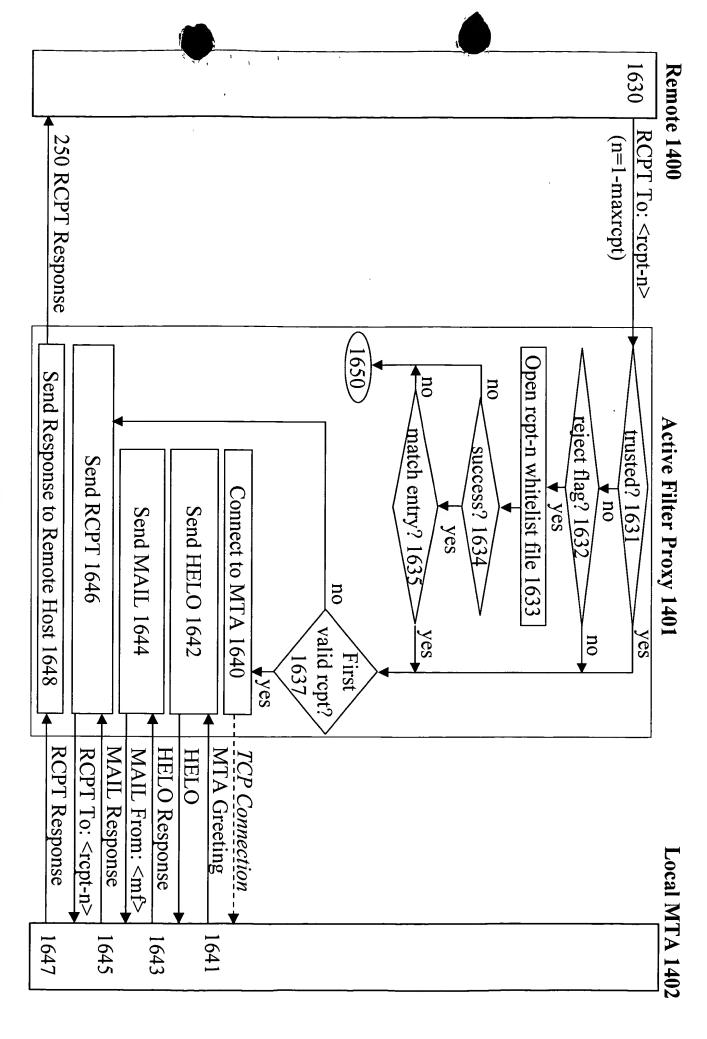


Figure 26 Per ROPT White list Processing

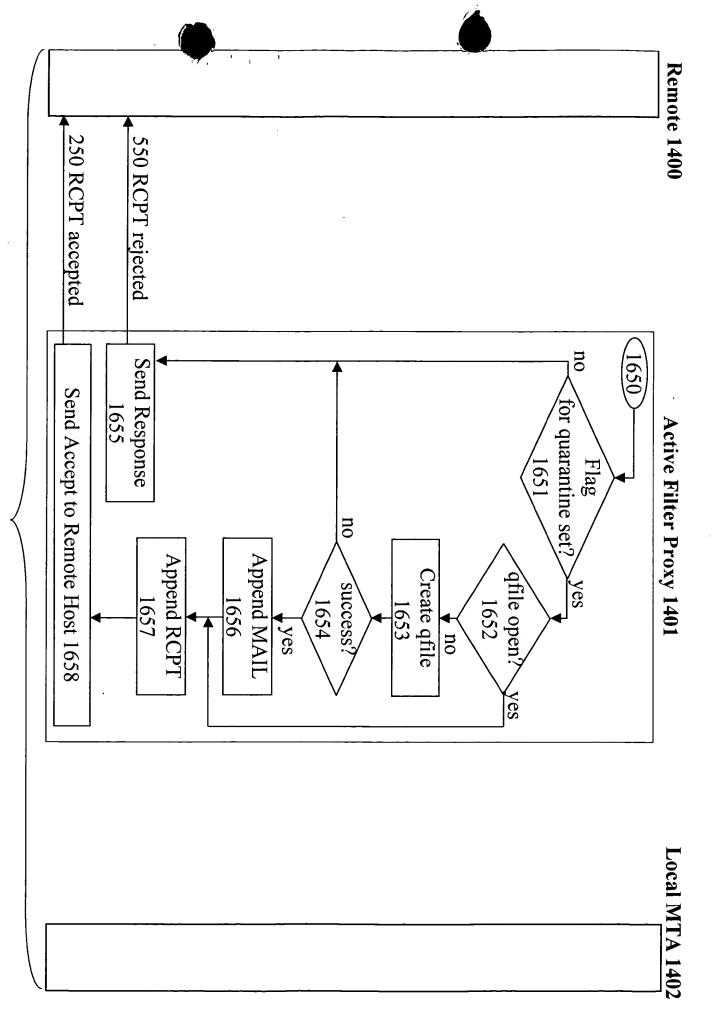


Figure 27 RGPT Quarantine Processing.

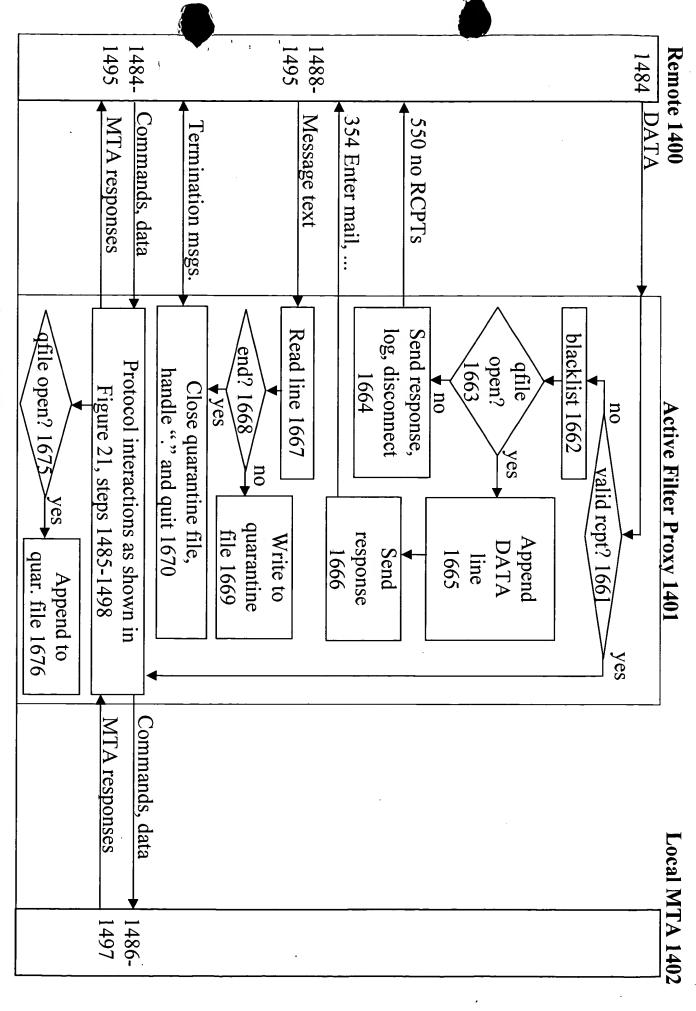


Figure 28:1DATIA and Message Text Processing.

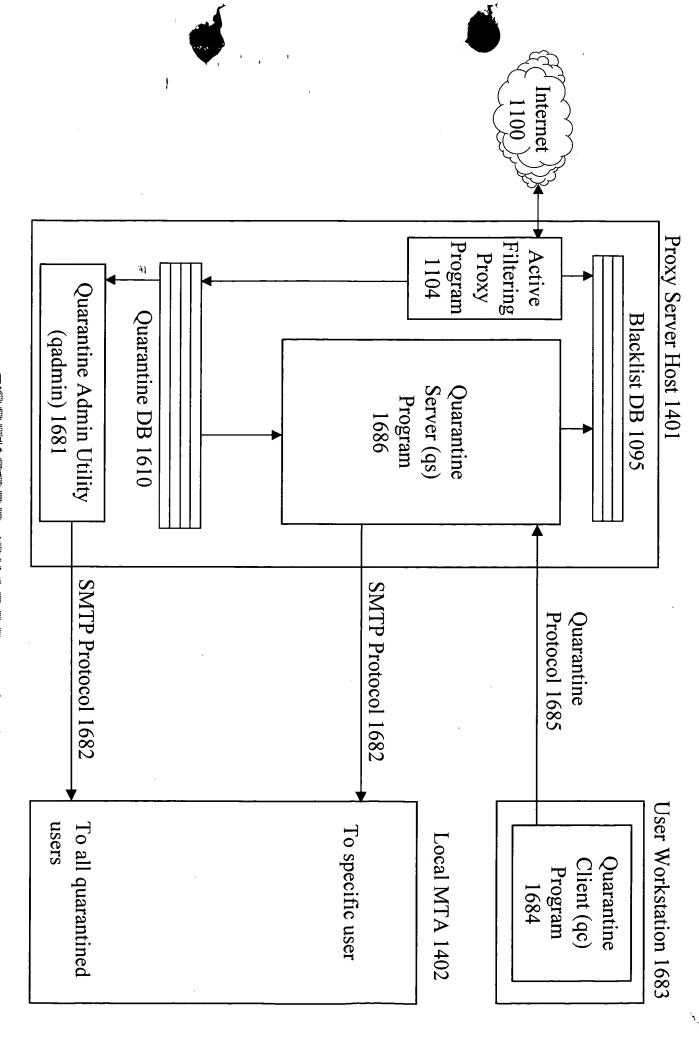


Figure 29 Quarantified Message Retrieval